Alcohol and Driving

Driver Demographic Trends

Driver Distraction, Interface, and Workload

Driver Modeling and Simulation

Driving Simulation

Drowsy Driving

Medical Conditions/Medications

Night Vision Systems

Pedestrian/Road Worker Visibility

Rearview and Indirect-Vision Systems

Senior Mobility

Senior Mobility

UMTRI researchers study the safety and mobility of persons aged 65 and older. They are interested in both reducing the crash risk of older drivers and helping seniors maintain mobility once safe driving is no longer possible. Researchers develop and test theories of how driving changes relative to cognitive, perceptual, and psychomotor declines; evaluate technology for maintaining safe senior mobility; and develop and test screening and assessment tools for seniors.

Aging can cause declines in abilities needed for safe driving. An important component of older driver safety is the ability of seniors to self-assess psychological declines and adjust driving appropriately. UMTRI researchers have been active in the development and evaluation of self-screening tools to assist older drivers in making good decisions regarding safe mobility. One of these tools is the Driving Decisions Workbook. Other research includes surveys of older drivers, evaluation of a variety of instruments, on-road assessment of drivers, and focus groups.

The maintenance of safe and acceptable senior mobility requires the involvement of the seniors family. Researchers examine this complex social dynamic and develop

NEW + NOTEWORTHY

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Keeping Soldiers Safe!
2017-08-28 21:15

UMTRI Receives Toyota CSRC-Next Project
2017-08-02 15:45

Automotive Futures group holds 9th Powertrain Strategies Conference
2017-07-19 09:30

Michigan's New Motor City
2017-07-10 09:30

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Vehicle Lighting and Signaling

Vision in Vehicles

Young Drivers

processes to improve the communication between seniors and their families.

As our society ages, programs to help seniors maintain safe mobility are proliferating. UMTRI is at the forefront of developing criteria for effective programs, evaluating these programs, and communicating results through publications such as Promising Approaches for Enhancing Elderly Mobility.

RECENT PUBLICATIONS SEE MORE

Keeping older adults driving safely: a research synthesis of advanced in-vehicle technologies

DAVID W. EBY, LISA J. MOLNAR, LIANG ZHANG, RENÉE M. ST. LOUIS, NICOLE ZANIER, LIDIA P. KOSTYNIUK

report

BackgroundAdvanced in-vehicle technologies have been proposed as a potential way to keep older adults driving for as long as they...

Self-regulation of driving by older adults: a LongROAD study

LISA J. MOLNAR, DAVID W. EBY, LIANG ZHANG, NICOLE ZANIER, RENÉE M. ST. LOUIS, LIDIA P. KOSTYNIUK

report

Background Self-regulation, or the modification of driving by driving less or avoiding challenging situations in response to declining...

Has the time come for an older driver vehicle?

DAVID W. EBY, LISA J. MOLNAR

journal article IN: Journal of ergonomics. Special Issue 3 (2014)

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Has the time come for an older driver vehicle?

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UMTRI IN THE NEWS

AUGUST 28, 2017

Keeping Soldiers Safe!

UMTRI's Biosciences group is part of a large team of University and Army researchers working to develop a new test dummy specifically for...

SEPTEMBER 16, 2016

Self-driving vehicles will have limited impact on productivity

U-M News article covers Michael Sivak and Brandon Schoettle's latest report, Would Self-Driving Vehicles Increase Occupant Productivity?...

MAY 26, 2015

Matt Reed in NPR's "All Things Considered"

Matt Reed, research professor and head of UMTRI's Biosciences Group, is featured in the May 25, 2015, "All Things Considered" story...

APRIL 24, 2013

Detroit Free Press: Connected-vehicle technology could save lives

Vehicle-to-vehicle communication "really has a tremendous amount of promise to save lives," said David Strickland of the National Highway...

SEE ALL PRESS

Driving avoidance by older adults : is it always self-regulation?

LISA J. MOLNAR, DAVID W. EBY, DR. JUDITH CHARLTON, J. LANGFORD, S. KOPPEL, SHAWN MARSHALL, MALCOLM MAN-SON-HING.

journal article IN: Accident analysis and prevention. Vol. 57 (Aug. 2013), p. 96-104.

Self-regulation shows promise as a means by which older adults can continue to drive at some level without having to stop altogether....

EXPERTS

David W. Eby

Lidia P. Kostyniuk

Lisa J. Molnar

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How to Create, Implement, Sustain, and Evaluate Travel

Transportation Patterns of Older Drivers in Rural Michigan

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Self-Regulatory Practices by Older Adults

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